

## **REMARKS**

In view of the foregoing amendments and the following remarks, reconsideration of pending claims 10-14, 16-18 and 25-34 is respectfully requested.

### **ALLOWABLE SUBJECT MATTER**

Claims 1-2, 4-7, 9, 20-21, 23, and 29-31 are indicated as allowed. Applicant appreciates the Examiner's indication of allowable subject matter.

Claim 10 stands objected to because of informalities. These informalities have been corrected, accordingly, this objection is believed to be overcome.

Claims 10, 14 16-18 and 25 stand rejected under 35 USC §103(a) as being unpatentable over Le et al U.S. Patent Application US2005/0001778 A1 in view of Jonsson et al U.S. Patent 6,295,028.

Claims 11-13 and 28 stand rejected under 35 USC §103(a) as being unpatentable over Le as modified by Jonsson in view of Darrel Helms WO 97/06576.

Claims 26-27 stand rejected under 35 USC §103(a) as being unpatentable over Le et al as modified by Jonsson and Darrel, and further in view of Tricoles et al U.S. 3,761,937.

With regards to independent Claim 10, Applicant has amended this application to recite that the bent edge of the ground plane includes a portion that is angled inwardly towards the dipoles. Support for this limitation is found in Applicant's specification on page 19 lines 16 – page 20 line 2, and shown in Figure 7. This ground plane structure achieves technical advantages by improving the front-to-back ratio, and further improves a cross-polarization level even with a narrow ground plane, as articulated in Applicant's specification on page 19 lines 17 – 20, and shown at 38. In contrast, Jonsson '028 teaches that the grooves 11, 12 are defined by substantially planar wall portions, such as taught in Column 4, lines 40-50, and shown in Figure 2. The combination of this ground plane, in combination with the plurality of dipoles that extend outwardly from the upper surface, is neither taught nor suggested by the cited prior art, and a

notice to this effect is respectfully requested.

New dependent Claim 32 further recites that the ground plane bent edge has at least two bends. Claim 32 is allowable for the reasons set forth with regards to independent Claim 10.

New dependent Claim 33, which depends from dependent Claim 32, further recites that the ground plane bent edge has a first portion angled away from the dipoles, and a second portion angled towards the dipoles. Support for this limitation is found in Applicant's specification as area 37 and 38 as discussed in Applicant's specification on page 19 lines 16 – page 20 line 2, and shown in Figure 7. The ground plane structure of Jonsson fails to teach or suggest such a ground plane, and this ground plane in combination with dipoles extending outwardly from the ground plane.

New dependent Claim 34, which depends from dependent Claim 33, further recites that the first portion angles upwardly with respect to the ground plane, and the second portion angles upwardly with respect to the first portion. This limitation is also found in Applicant's specification on page 19, lines 16 – page 20 line 2, and shown in Figure 7. This ground plane is neither taught nor suggested by Jonsson.

It is respectfully submitted that all pending Claims 1, 2, 4-7, 9-14, 16-18, 21, 23, and 25 - 34 are now all in condition of allowance, and a notice to this effect is respectfully requested.

A one month Extension of Time is enclosed herewith along with the requisite fee of \$120.00.

No additional fees are believe to be due, as Applicant has already tended payment for the number of pending claims. However, the Commissioner is authorized to debit the deposit account # 50-1752 should any other fees be due.

The Examiner is encouraged to contact the undersigned attorney to resolve any outstanding matters by Examiner's amendment where possible.

Respectfully Submitted,

A handwritten signature in black ink, appearing to read 'R. C. Klinger', written in a cursive style.

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